

Additional file 2 Antioxidant capacity of berry extracts obtained with different solvents.

Solvent	Black mulberry			Blackberry			Strawberry		
	FRAP (mmol Fe ²⁺ /kg DW)	DPPH [•] (mmol TE/kg DW)	ORAC (mmol TE/kg DW)	FRAP (mmol Fe ²⁺ /kg DW)	DPPH [•] (mmol TE/kg DW)	ORAC (mmol TE/kg DW)	FRAP (mmol Fe ²⁺ /kg DW)	DPPH [•] (mmol TE/kg DW)	ORAC (mmol TE/kg DW)
W	592.50 ± 15.82 ^l	180.55 ± 8.31 ^h	529.35 ± 3.71 ^{ghi}	350.36 ± 4.87 ⁱ	94.45 ± 3.22 ^k	341.93 ± 9.11 ^{de}	266.68 ± 4.35 ^l	65.65 ± 1.18 ^j	194.27 ± 3.97 ^{efg}
M1	856.74 ± 10.21 ^k	260.72 ± 8.00 ^g	558.86 ± 1.60 ^{fgh}	349.15 ± 1.51 ⁱ	98.94 ± 2.42 ^{jk}	379.93 ± 15.80 ^d	278.02 ± 2.46 ^k	84.81 ± 1.88 ^h	221.82 ± 1.02 ^{bcd}
M2	1115.38 ± 13.91 ⁱ	299.20 ± 2.73 ^f	576.42 ± 7.06 ^{fg}	600.09 ± 5.72 ^f	211.93 ± 3.68 ^{ef}	525.48 ± 13.74 ^b	408.79 ± 1.94 ^g	111.82 ± 1.40 ^e	240.28 ± 5.75 ^{bcd}
M3	1306.51 ± 1.47 ^{cd}	367.62 ± 5.53 ^{bc}	500.00 ± 1.74 ^{hij}	637.08 ± 8.51 ^e	197.21 ± 2.54 ^g	495.82 ± 2.48 ^{bc}	400.09 ± 2.12 ^h	113.25 ± 0.79 ^e	228.34 ± 5.58 ^{bcd}
M4	900.09 ± 8.72 ^j	260.59 ± 3.65 ^g	459.84 ± 26.98 ^j	360.19 ± 2.15 ⁱ	104.62 ± 2.14 ^j	464.78 ± 7.85 ^c	285.87 ± 0.65 ^k	80.16 ± 0.40 ⁱ	218.87 ± 7.35 ^{cd}
M5	1230.53 ± 5.65 ^{fg}	345.02 ± 5.29 ^d	470.68 ± 19.30 ^{ij}	598.30 ± 2.13 ^f	180.22 ± 4.31 ^h	467.15 ± 15.12 ^c	385.38 ± 0.65 ⁱ	107.02 ± 2.11 ^f	275.93 ± 11.68 ^a
M6	1380.60 ± 7.03 ^b	363.18 ± 7.29 ^c	655.64 ± 32.47 ^e	623.31 ± 7.21 ^e	205.37 ± 3.26 ^{fg}	509.27 ± 3.31 ^{bc}	433.44 ± 1.12 ^f	119.70 ± 1.59 ^d	210.02 ± 3.80 ^{def}
E1	230.81 ± 3.19 ⁿ	68.59 ± 0.40 ⁱ	175.77 ± 1.29 ^k	170.37 ± 2.28 ^j	43.85 ± 1.36 ^l	254.74 ± 6.21 ^f	187.27 ± 1.64 ^m	54.39 ± 0.71 ^k	130.45 ± 8.08 ^h
E2	1276.75 ± 4.45 ^{de}	373.96 ± 4.55 ^{bc}	868.43 ± 7.05 ^d	516.02 ± 2.15 ^h	178.06 ± 2.59 ^h	311.12 ± 4.44 ^e	404.69 ± 1.37 ^{gh}	110.68 ± 1.91 ^{ef}	242.01 ± 2.38 ^b
E3	1247.27 ± 2.59 ^{ef}	364.98 ± 9.10 ^c	819.21 ± 9.22 ^d	669.91 ± 8.84 ^d	217.73 ± 2.56 ^e	503.03 ± 6.67 ^{bc}	435.19 ± 2.66 ^{ef}	121.62 ± 1.97 ^d	225.93 ± 3.97 ^{bcd}
E4	294.87 ± 3.22 ^m	63.12 ± 1.22 ⁱ	206.36 ± 3.56 ^k	179.73 ± 2.94 ^j	102.63 ± 1.58 ^{jk}	184.07 ± 3.54 ^g	169.77 ± 1.01 ⁿ	49.22 ± 1.50 ^l	212.57 ± 11.85 ^{de}
E5	1206.85 ± 4.46 ^{gh}	344.26 ± 5.53 ^d	1046.98 ± 1.65 ^b	533.78 ± 1.03 ^g	160.30 ± 2.44 ⁱ	465.72 ± 23.42 ^c	355.02 ± 1.37 ^j	100.75 ± 1.44 ^g	237.66 ± 5.35 ^{bc}
E6	1490.61 ± 19.25 ^a	394.89 ± 5.20 ^a	1027.69 ± 6.15 ^a	710.48 ± 3.60 ^c	246.17 ± 2.57 ^d	509.54 ± 0.36 ^{bc}	442.72 ± 3.88 ^{de}	123.48 ± 0.00 ^{cd}	188.67 ± 5.29 ^{fg}
A1	16.32 ± 0.13 ^o	2.65 ± 0.03 ^j	15.27 ± 0.47 ^l	85.06 ± 0.54 ^k	7.27 ± 0.27 ^m	40.71 ± 1.80 ^b	132.50 ± 0.83 ^o	30.19 ± 0.14 ^m	35.43 ± 2.01 ⁱ
A2	1188.92 ± 10.25 ^h	381.18 ± 1.05 ^{ab}	559.76 ± 12.81 ^{fgh}	892.42 ± 9.66 ^b	315.42 ± 5.70 ^a	609.45 ± 27.68 ^a	488.13 ± 2.65 ^b	136.24 ± 1.29 ^b	185.06 ± 10.98 ^g
A3	1282.60 ± 17.37 ^d	331.47 ± 1.06 ^{de}	960.29 ± 51.37 ^c	879.04 ± 2.10 ^b	297.37 ± 5.14 ^b	474.77 ± 3.08 ^c	499.11 ± 0.66 ^a	140.50 ± 0.71 ^a	241.48 ± 1.12 ^{bc}
A4	20.73 ± 0.21 ^o	3.91 ± 0.10 ^j	16.37 ± 0.02 ^l	88.64 ± 1.00 ^k	6.76 ± 0.12 ^m	39.49 ± 1.36 ^b	78.84 ± 1.11 ^p	24.41 ± 0.68 ⁿ	15.02 ± 0.73 ⁱ
A5	1226.37 ± 8.48 ^{fg}	318.63 ± 4.22 ^e	845.35 ± 50.84 ^d	922.28 ± 10.98 ^a	313.08 ± 3.12 ^a	572.69 ± 20.06 ^a	444.14 ± 5.12 ^d	126.41 ± 1.20 ^c	269.79 ± 11.29 ^a
A6	1327.85 ± 12.52 ^c	344.85 ± 4.86 ^d	619.29 ± 23.09 ^{ef}	878.72 ± 8.73 ^b	285.54 ± 2.45 ^c	497.03 ± 7.53 ^{bc}	453.03 ± 6.48 ^c	136.73 ± 0.86 ^{ab}	184.60 ± 1.04 ^g

Mean value ± standard deviation; n = 9. DW: dry weight, TE: trolox equivalent. W: water, M1: methanol, M2: methanol/water (70/30, v/v), M3: methanol/water (50/50, v/v), M4: methanol/acetic acid (99.5/0.5, v/v), M5: methanol/water/acetic acid (70/29.5/0.5, v/v/v), M6: methanol/water/acetic acid (50/49.5/0.5, v/v/v), E1: ethanol, E2: ethanol/water (70/30, v/v), E3: ethanol/water (50/50, v/v), E4: ethanol/acetic acid (99.5/0.5, v/v), E5: ethanol/water/acetic acid (70/29.5/0.5, v/v/v), E6: ethanol/water/acetic acid (50/49.5/0.5, v/v/v), A1: acetone, A2: acetone/water (70/30, v/v), A3: acetone/water (50/50, v/v), A4: acetone/acetic acid (99.5/0.5, v/v), A5: acetone/water/acetic acid (70/29.5/0.5, v/v/v), A6: acetone/water/acetic acid (50/49.5/0.5, v/v/v). Identical superscripts in the same row indicate no significant difference (p < 0.05).